

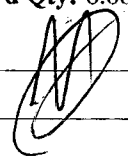
Work Order ID 158268

Thursday, March 16, 2017 11:21:37 AM

158268

Page 1

Item ID: D3827-041 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Rib Assembly (Inboard)
 Start Date: 3/20/2017 Start Qty: 6.00 ***6*** Cust Item ID:
 Required Date: 4/3/2017 Req'd Qty: 6.00 ***6*** Customer:
 Reference: SCHEDULED/C

Approvals: Process Plan:  Date: MAR 16 2017 Tooling: Date:
 QC: Date: SPC (Y/N): Date: Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3827	Rev. A								

100

100

Large Fab

Large Fab

Large Fab

Memo

- 1- cut D3827-1 rib as per dwg D3827
- 2- drill holes using DT9435 jig and open to finish size as per dwg D3827
- 3- c/sink as per dwg
- 4- remove identification markings
- 5- deburr
- 6- weld bushing in rib as per dwg D3827
A/R S.S. Rod Batch: M134442
- 7- grind weld flush
- 8- deburr if necessary

SCRAP

bx DG 2017/03/21

bx CS 17/03/30

DQA:

Date: 17-04-10



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: APR 12 2017

Work Order update only ☐

Work Order: 153263 Part No. D3827-041 NCR No. 17-6376		DISPOSITION Rework ☐ Scrap ☒ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Cross tube ☐ Water Jet ☐ Engineering ☐ Machining ☒ Small Fab ☐ Prod. Eng. Coord. ☐ Quality ☐ Thermoforming ☐ Finishing ☐ Rec/Store/Packaging ☐ Other ☐ Large Fab ☒ Composite ☐ Supplier ☐			
Date: 17-03-31		Step #: 100		QTY Effective: 6		MRB (QS1042) Approval 9-89 17-03-31	
Description Work Order Deviation				Disposition		Completed By	
.375 hole are find to be drill off center L.C. Operator did not fallow instruction. Bushing are to be welded on one side then back drill to assure proper alignment is kept. Operator welded both side of bushing therefor- was not able to properly deback drill. Work order instruction is not clear for this procedure.				Scrap destroy no replace instruct employee on proper procedure and record in training log. add instruction on w/o to weld side one side, back drill then weld other side.		Cpl 17-03-31 Lead hand / Supervisor Approval Verification Cpl 17-3-31 QC / QA Coordinator DAS Approval 9-89 17-03-31	
Root Cause Environment ☐ No Re-verification ☐ Design ☐ Operator ☒ Doc/Data ☐ Offset/Setup ☐ Equip/Tooling ☐ Supplier ☐ Handling/Pre ☐ Training ☒ Material ☐ Use for Testing ☐ Internal Transport ☐ Poor Information ☒ Tribal Knowledge ☐ Rushing ☐ LOA ☐ Product Improvement ☐ Substation ☐ Process Improvement ☐ Past Expiry Date ☐ Manufacturing Process ☐ Misidentified ☐ Past Due ☐				FAULT CATEGORY Pressure/Forced ☐ Temperature/Cure ☐ Power Loss/Surge ☐ Positioned Wrong ☐ Bending ☐ Set-up ☐ Folio/Program ☐ Outside Dimensions ☐ Centre Not Concentric ☐ BOM/Route ☐ Grain ☐ Over/Under tolerance ☐ Cracks ☐ Broken/Damage/Defect ☐ Weld ☐ Part Incorrect ☐ Crimp/Kink/Ripple/Wave ☐ Inspection Incomplete/Unqualified ☐ Wrong Stock Pulled ☐ Part Lost/Missing ☐ Cuffs ☐ Contamination ☐ Out of Sequence ☐ Part Moved ☐ Crushing ☐ Countersink ☐ Off-set ☐ Drawing ☐ Heat Treat ☐ Cut Too Short ☐ Mislabeled ☐ Finish ☐ Wave/Twist in Tube ☐ Instructions Incomplete/Unclear ☐ Fit/Function ☐ Misread ☐ Marks/Chatter ☐ Drill Holes ☒ Misaligned/off center ☐ Turning Sequence ☐			
OTHER :							

Work Order ID 158268***158268***

Page 2

Thursday, March 16, 2017 11:21:37 AM

Item ID: D3827-041

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Rib Assembly (Inboard)

Start Date: 3/20/2017 Start Qty: 6.00

6

Cust Item ID:

Required Date: 4/3/2017 Req'd Qty: 6.00

6

Customer:

Reference: SCHEDULED/C

Approvals:

Process Plan: _____

Date: _____

Tooling: _____

Date: _____

Run Start

NR1

QC: _____

Date: _____

SPC (Y/N): _____

Date: _____

Stop

NR2Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

QC10- Inspect visual per QSI004- ground welds

0.00

130

QC

Memo

0.00

Quality Control

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.12

Quality Control

150

Identify as per dwg & Stock Location: _____

0.00

150

Packaging

Memo

0.06

Packaging

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval	
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause				FAULT CATEGORY					
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐				Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER :									

Work Order ID 158268***158268***

Page 3

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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Memo

0.60

Quality Control

LOCATION WA004

 **DAS
21
9-89**

APR 05 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																	
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OTHER : _____																																																																									

Picklist Print

Thursday, March 16, 2017 11:21:36 AM

Page 1

Work Order ID: 158268

158268

Parent Item: D3827-041

D3827-041

Parent Item Name: Rib Assembly (Inboard)

Start Date: 3/20/2017

Required Date: 4/3/2017

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:A 08-12-01 new issue DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3759-1		Manufactured	No			100	Each	205.0000	3	18			

D3759-1

Bushing

****** CS 17/03/31

Location Loc Qty Loc Code

WA004

205

145615

33

149531

28

150800

2

154959

60

157144

82

100

f

1,042.804

8

50.52632

****** DC 2017/03/21

M304TS0.750W.065

Purchased

No

M304TS0 750W 065

304 SQ Tube .75x.75x.065W

Location Loc Qty Loc Code

WA004

1042.804944

B136907 → 51

m133412

2.264944

m136378

93.54

m136907

147

m137065

800

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

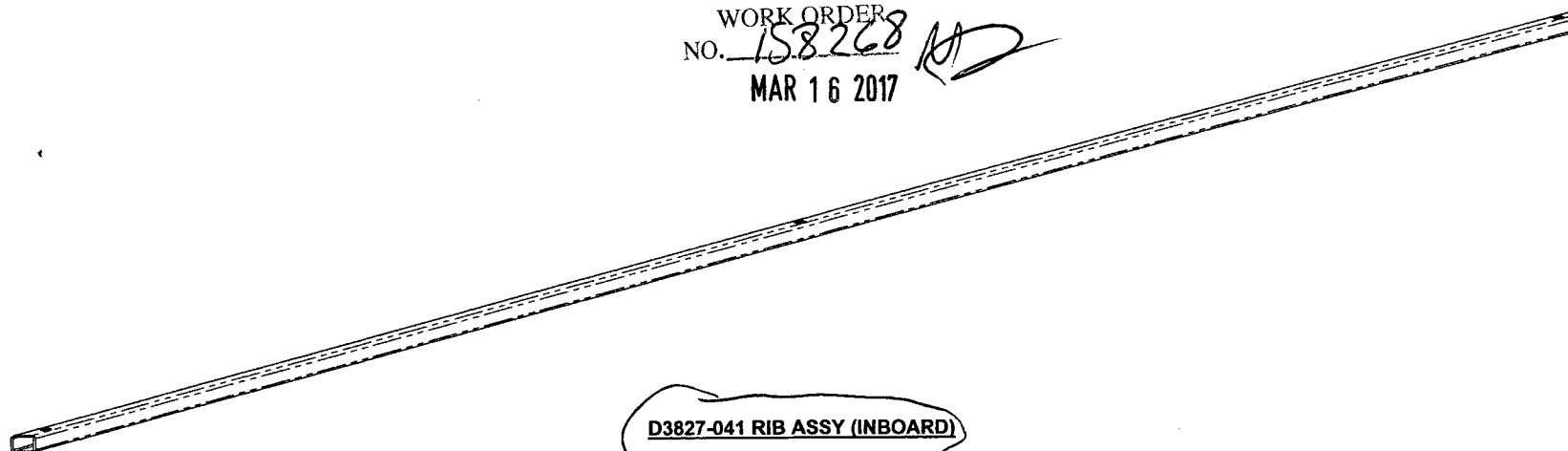
QA Closed: _____ Date: _____

Work Order update only ☐

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Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
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Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

ITEM	QTY -041	P/N	DESCRIPTION
1	X	D3827-041	RIB ASSY (INBOARD)
2	3	D3759-1	BUSHING
3	1	D3827-1	RIB

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 158268 *AD*
MAR 16 2017



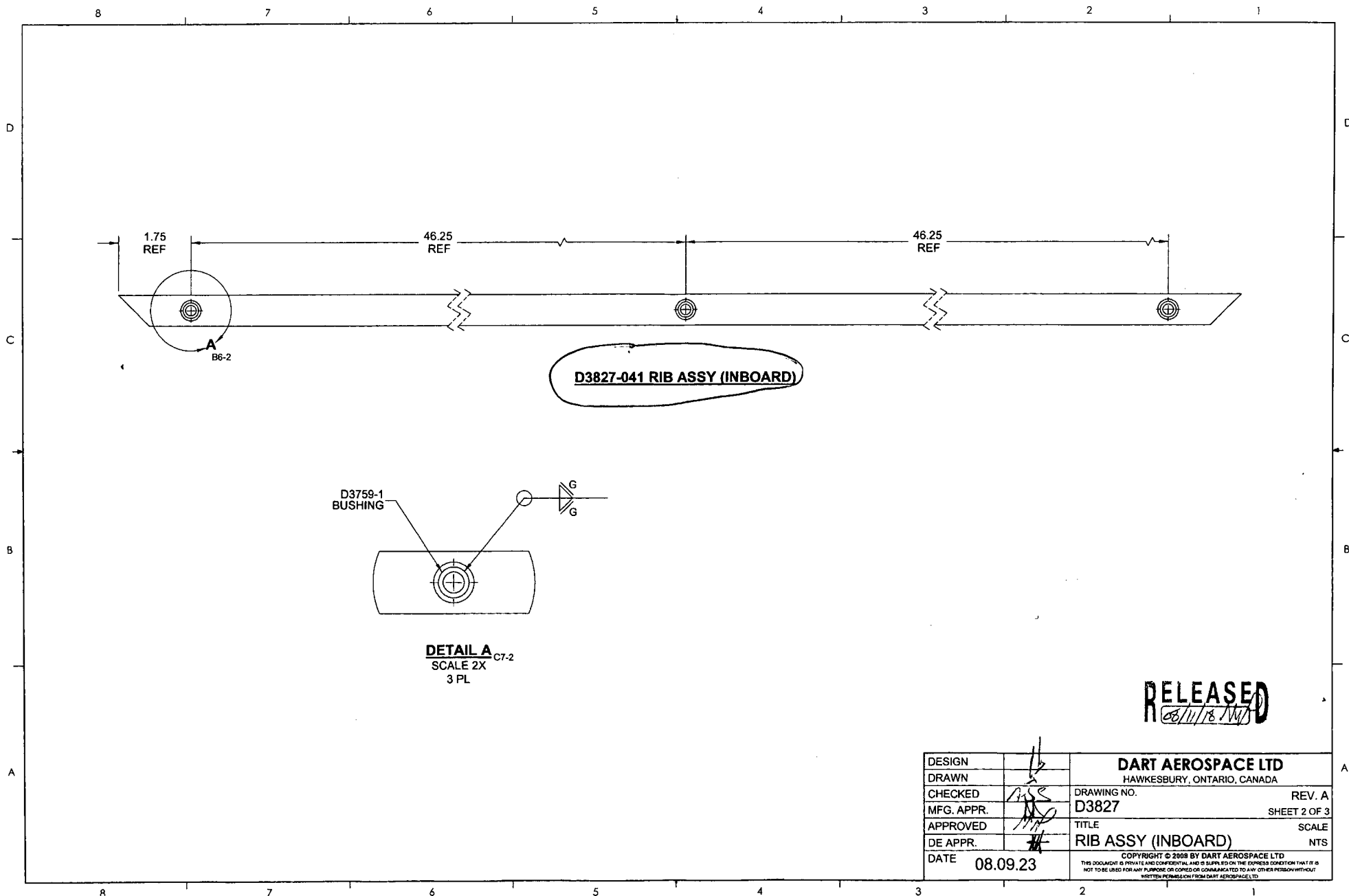
D3827-041 RIB ASSY (INBOARD)

RELEASED
08/11/18

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 4.59 lbs

A		NEW ISSUE		MB	08.09.23
REV.		DESCRIPTION		BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. A	
DRAWN				SHEET 1 OF 3	
CHECKED	<i>AS</i>			DRAWING NO. D3827	
MFG. APPR.	<i>AD</i>			TITLE RIB ASSY (INBOARD)	
APPROVED	<i>AD</i>			SCALE	NTS
DE APPR.	<i>AD</i>				
DATE	08.09.23				

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RELEASED
08/11/18 WJ

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D3827	SHEET 2 OF 3
APPROVED		TITLE	SCALE
DE APPR.		RIB ASSY (INBOARD)	NTS
DATE	08.09.23	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

8 7 6 5 4 3 2 1

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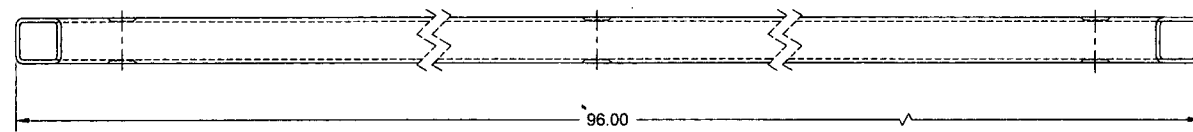
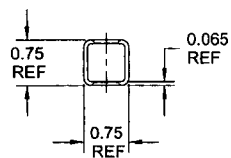
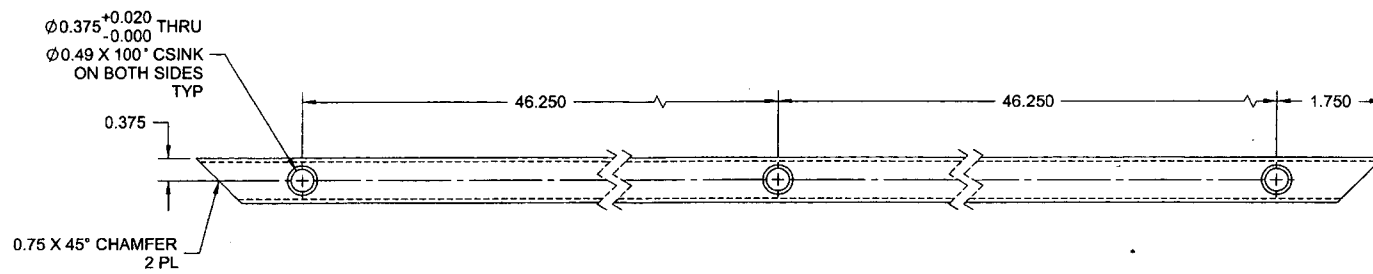
C

B

B

A

A



D3827-1 RIB

RELEASED
08/11/23

- NOTES:
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SQUARE TUBE, 0.75 X 0.75 X 0.065 WALL
REF. DART SPEC. M304TS0.750W0.065
 - 2) FINISH: NONE
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 4.55 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D3827	SHEET 3 OF 3
APPROVED		TITLE	SCALE
DE APPR.		RIB ASSY (INBOARD)	NTS
DATE	08.09.23	COPYRIGHT © 2008 BY DART AEROSPACE LTD	
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